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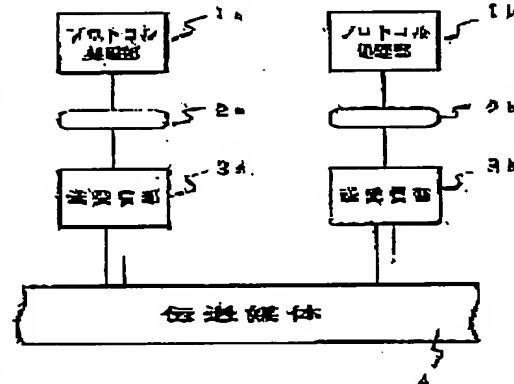
(54) COMMUNICATION SYSTEM

(57) Abstract:

PURPOSE: To secure compatibility with a conventional existed system and to improve the deterioration of performance owing to the lack of information in the middle of transmission by providing an idle area detection means detecting an idle area in a data string and a redundancy transmission means which redundantly transmits a part of the data string through the use of the detected idle area.

CONSTITUTION: Protocol processing parts 1a and 1b, redundancy work parts 2a and 2b which detect the idle area from a frame which the processing parts 1a and 1b generate and redundantly encode/decode partial information of the frame and transmission/reception parts 3a and 3b controlling an interface between a transmission medium 4 and the redundant work parts 2a and 2b and transmitting/receiving data in accordance with the transmission medium 4 are provided. The protocol processing parts 1a and 1b can use hardware used in the existed devices such as IEEE 802.2.

Compatibility with the existed protocol is secured by the redundancy work parts 2a and 2b and a part of the frame is redundantly transmitted so that the deterioration of performance owing to a data error during transmission is improved.



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